

IC-V82 IC-U82 430(440)MHz

144MHz



Optional digital unit, UT-118

The optional UT-118 provides D-STAR format digital voice and slow data communication. The UT-118 includes the following digital features

Callsign calling

In the digital mode, your callsign and the receiving callsign (or CQ message) are included in each transmission. The callsign squelch allows you to choose an incoming call selected by the callsign. Also, received callsigns are automatically stored in the memory.

Position exchange with external GPS receiver

When connected to an external GPS receiver*, position information can be exchanged with other stations. When the receiving side is connected to a PC**, position monitoring is possible.

- * NMEA 0183 output and RS-232C interface are required.
- ** Position mapping software required (Not supplied by Icom).

And more digital features

- 20-character short data message
- Digital code squelch
- EMR communication
- Digital pocket beep · Stand-by beep

7W powerful output power

A powerful 7W* output power provides superior transmit power. All this power is available with the supplied battery pack. Reduced power settings also allow you to adapt to the communication conditions and provide longer operating time.

* 5W for UHF.

200 memory channels and 10 memory banks

Up to 200 regular memory channels can be stored with a 6-character channel name, tone and duplex settings. The memory channels can be tagged with A-J bank name and allows you easy channel management. In addition, use Icom's exclusive DMS (Dynamic Memory Scan) system to scan selected memory banks by simply adding and deleting bank links.

Built-in CTCSS/DTCS

Built-in CTCSS/DTCS tone codes provide guiet stand-by and allow you to access a closed repeater. The pocket beep alerts you when a matched tone frequency is received. The tone scan detects the tone frequency used in the receiving frequency.

Other features

- NOAA weather channel receive * (* IC-V82 USA version only)
- Automatic repeater function (USA version only)
- · Reversible control knob and up/down buttons assignment
- Durable construction and simple operation
- 16 DTMF dial memory
- · PC cloning capability



	GENERAL	
Frequency cov	/erage (unit : MHz):	
Version	IC-V82	IC-U82
USA	Tx 144-148	Tx 420-450*2
USA	Rx 136-174*1	Rx 400-479*2
Europe	144-146	430-440

Guaranteed range *1 144-148MHz, *2 440-450MHz

 Mode : F3E, F2D, F7W*

* Optional UT-118 required.

• No. of memory Ch. : 207 (incl. 6 scan edges and 1 call)

• Operating Temp. range: -10°C to +60°C; +14°F to +140°F

• Frequency stability : ±2.5ppm (-10°C to +60°C)

: 7.2V DC (6.0-10.3V DC accept- Power supply requirement able; Icom's battery pack only)

Current drain (at 7.2V DC):

		IC-V82	. IC-U82
Tx	High (7W/5W)	2.6A	2.0A
	Max. audio	250mA	250mA
Rx	Standby	80mA	80mA
	Power save	30mA	30mA

Antenna impedance : 50Ω (BNC)

• Dimensions (W×H×D) : 54 × 139 × 36.7 mm; (Projections not included) $2 \frac{1}{8} \times 5^{15} \hspace{-0.3mm} \text{3.2} \times 1^{7} \hspace{-0.3mm} \text{1.6}$ in

: 390g; 13.8oz (w/ant. and BP-222N) Weight (approx.)

TRANSMITTER

Output power (at 7.2V DC):

IC-V82 7.0/4.0/0.5W (High/mid/low) IC-U82 5.0/2.0/0.5W (High/mid/low)

• External microphone : 3-conductor 2.5(d)mm (1/10")

connector

• Spurious emissions : Less than -60dBc • Max. freq. deviation : ±5.0/±2.5kHz (Wide/narrow)

 $/2.2k\Omega$

Supplied accessories

Battery case or battery pack*
 Desktop charger*

 Belt clip Antenna *depending on version

RECEIVER

· Receiving system Double conversion super-

heterodyne

46.35MHz/450kHz (1st/2nd)

: 0.16µV (typ.; at 12dB SINAD) Sensitivity · Squelch sensitivity : 0.11µV (typ.; threshold)

 Selectivity : More than 55/50dB (wide/narrow)

 Intermodulation : 65dB (typ.) · Spurious and image: 80dB (typ.; VHF) 70dB (typ.; UHF) rejection

· Intermediate freq.

• Audio output power : 300 mW with an 8Ω load

• Ext. speaker connector: 3-conductor 3.5(d)mm (1/8")/8Ω

• Ext. Data connector: 3-conductor 2.5(d)mm (1/10")

All stated specifications are subject to change without notice or obligation.

OPTIONS

BP-208N batteries × 6 BP-209N Ni-Cd V/1100mAh BP-222N Ni-Cd

BP-210N 7.2V/1650mAh

BP-211N 7.4V/1800mAh



BATTERY		BP-208N	BP-209N	BP-210N	BP-211N	BP-222N
BATTERY	VHF (7W)	-	3 h 20 min	6 hours	6 h 10 min	2 h 15 min
LIFE	UHF (5W)		3 h 40 min	7 hours	8 h 15 min	2 h 50 min

Battery life is approx. time; Tx (Hi): Rx: standby=1:1: 8 power save func-

REGULAR CHARGER **▼**BC-147A/E

BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER

Charges the Ni-Cd or Ni-MH battery pack, BP-209N, BP-210N, BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147 AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211N.



BC-144N DESKTOP CHARGER + BC-145A/E/V AC ADAPTER

INTERNAL LINITS

old charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145, is supplied the charger depending on version. Charging time: 1.5 to 2 hours. Cannot charge Li-Ion battery pack, BP-21 BC-119N+AD-101+BC-145A/E/V Rapidly charges BP-211N as well as other battery packs.

BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-124 AC ADAPTER For rapid charging of up to 6 battery packs (including BP-211N) in 1.5 to 2 hours. Six AD-101s are required OPC-656 DC POWER CABLE; For use with the BC-121N. (12–20 V DC required)



HM-75A: Allows you to remotely select operating channel, etc., according to program.

HM-131L: Compact and durable body. Equipped with an earphone jack and a revolving clip.

HM-128L: Lightweight earphone-microphone.



HS-94: Earhook headset with flexible boom microphone

HS-95: Behind-the-head headset with flexible boom microphone.

H5-97: Throat microphone fits around your neck and picks up speech vibration.

VS-1L: PTT/VOX unit. Required when using these headsets with the transceiver. H5-85: For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

▲UT-118 UT-108 DTMF DECODER Provides DTMF decode pager capabilities.

UT-118 DIGITAL UNIT Provides digital voice and data capability at 4.8kbps (Voice + Data). C5-V82 CLONING SOFTWARE + OPC-478/U CLONING CABLE

Provides quick and easy programming of memory channel, names, etc. OPC-478U is USB cable type

OPC-474 CLONING CABLE Use for transceiver-to-transceiver data cloning.

MB-86/MB-103 BELT CLIPS MB-103: Alligator type clip.

Same as supplied. MB-86: Swivel belt clip.

MB-96N/MB-96F

LEATHER BELT HANGERS MB-96N: Swivel belt hanger. MB-96F: Fixed type belt hanger. Use with MB-103.

SP-13 FARPHONE

Provides clear audio even in noisy environments.

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IC-718



Advanced HF Features in a Compact Package

For beginning or experienced hams

The easy-to-use IC-718 makes exploring the exciting, long distance HF bands simple. Every front panel key and dial is large and well spaced, to help avoid accidental input. Use the triple band stacking register to "remember" your last used frequency on different bands (it's great when contesting or multi-banding). Quickly tune up or down a band with the main dial's auto tuning step feature, or direct enter a frequency using the 10 key pad.

Superior features...

This rig is an exceptional value. An IF shift feature helps reject nearby interference. The adjustable microphone compressor lets you increase or decrease audio levels on the fly when working distant, weak stations. Talk hands-free with the VOX feature. You may install an optional IF filter for increased listening selectivity. CW enthusiasts will appreciate the built-in electronic keyer that features a variable dot/dash ratio, pitch, and key speed.

...and superior performance

A full 100 watts of adjustable output power* keeps you on air for many hours, even during a several day-long contest. The double-conversion receiver features a 4-element mixer to help minimize image and spurious responses.

*40 W AM

Optional DSP capability

With the optional UT-106 installed, you can enjoy the superior receiver performance of Digital Signal Processing (DSP).

Noise reduction: offers super clean SSB and AM operation. **Automatic notch filter:** minimizes "beat' signals and heterodynes.

There's still more:

- Optional voice synthesizer (UT-102)
- Optional ±0.5 ppm high frequency stability (CR-338)
- · Level adjustable noise blanker
- RF attenuator
- 101 memory channels
- Optional antenna tuners
- Various scan types, and more...

Double-conversion superheterody

0.16µV (1.8–29.999999 MHz)

13 µV (0.5–1.799999 MHz)

2 µV (1.8-29.999999 MHz)

More than 2.1 kHz/-6 dB

Less than 4.5 kHz/-60 dB

More than 6.0 kHz/-6 dB

Less than 20 kHz/-40 dB

More than 2.0 W at 10% distortion

Less than 5.6 µV (SSB)

SPECIFICATIONS

GENERAL

Frequency range

Ry 0.030-29.999999 MHz*1

1.800- 1.999999 MHz*2 3.500- 3.999999 MHz*2

7.000- 7.300000 MHz 10.100-10.150000 MHz

14.000-14.350000 MHz 18.068-18.168000 MHz

21.000-21.450000 MHz 24.890-24.990000 MHz 28.000-29.700000 MHz

*'Guaranteed range: 0.5-29.999999 MHz

*2 varies according to version

: USB, LSB, CW, RTTY (FSK), AM Mode

· No. of memory Ch.

101 (99 regular, 2 scan edges)

· Frequency resolution : 1 Hz · Frequency stability

Less than ±200 Hz from 1 min. to 60 min. after power ON. After that rate of stability less than ±30 Hz/hr. at +25°C (+77°F). Temperature fluctuations 0°C to +50°C (+32°F to

+122°F) less than ±350 Hz

1.3 A

2.0 A

 Power supply requirement: 13.8 V DC ±15 % (negative ground) · Current drain (at 13.8 V DC):

Stand-by Receive max. audio

20.0 A max. power • Operatable temp. range : -10°C to +60°C; +14°F to +140°F

Antenna connector

• Dimensions (projections not included)

• Weight (approx.) ACC connector

REMOTE connector

: 240(W)×95(H)×239(D) mm 97/16(W)×33/4(H)×913/32(D) in

: 3.8 kg; 8 lb 6 oz

Balanced modulation

Low level modulation

: 13-pin

: 2-conductor 3.5 (d) mm (1/8")

TRANSMITTER

· Modulation system SSB

AM

 Output power SSB, CW, RTTY ΔM

: Less than -50 dB below peak out-Spurious emissions

put power *spurious freq.; below 30 MHz: -50 dB, above 30 MHz: -60 dB

· Carrier suppression

· Unwanted sideband · Microphone connector KEY connector

· SEND connector · ALC connector

More than 40 dB More than 50 dB 8-pin connector (600 Ω)

5-100 W

2-40 W

: 3-conductor 6.5 (d) mm (1/4") Phono (RCA)

· Phono (BCA)

RECEIVER

· Receiver system

· Sensitivity (10 dB S/N) SSB, CW, RTTY AM

· SQL sensitivity

 Selectivity SSB, CW, RTTY

· Spurious and image rejection ratio

 Audio output power (at 13.8 V DC)

· RIT variable range

PHONES connector

· EXT SP connector

: ±1200 Hz : 3-conductor 6.5 (d) mm (1/4") : 2-conductor 3.5 (d) mm (1/8") /8 \Omega

More than 70 dB

with an 8 Ω load

(1.8-29.999999 MHz)

Supplied accessories:

· Hand microphone

· DC power cable

· Spare fuses

All stated specifications are typical and subject to change without notice or obligations.

OPTIONS



IC-PW1 HE+50 MHz 1 kW HE LINEAR AMPLIEIER

Covers all HF and 50 MHz bands, provides clean, stable 1 kW output. Automatic antenna tuner and compact detachable controller are standard. 2 exciter inputs are available. (An optional OPC-599 is required.)



SM-20 DESKTOP MICROPHONE
High quality desktop microphone.
Includes.[UP]/[DOWN] switches
and low cut function.



UT-102 VOICE SYNTHESIZER Announces the operating mode, frequency and signal strength



SM-8 DESKTOP MICROPHONE Equipped with 2 connection ca-



UT-106 DSP UNIT Provides AF DSP functions, such as noise reduction and auto notch.



bles. [UP]/[DOWN] switches are included.



455 kHz FILTERS



AH-2b ANTENNA ELEMENT

For mobile operation with the AH-4. All bands between 7–30 MHz

can be matched.

SM-6 DESKTOP MICROPHONE Electret condenser-type desktop microphone



Have good shape factor and provide you with better reception.



AH-4 HF+50 MHz MATIC TUNER ANTENNA

ers 3.5-30 MHz with a 7 m (23 ft) or longer



HM-36 HAND MICROPHONE as that supplied.

FL-52A CW/RTTY narrow; 500 Hz/=6 dB FL-53A CW narrow; 250 Hz/=6 dB FL-96 SSB wide; 2.8 kHz/=6 dB FL-222 SSB narrow; 1.8 kHz/=6 dB FL-257 SSB wide: 3.3 kHz/-6 dB



TENNA TUNER Compact, light weight antenna



PS-85 DC POWER SUPPLY Output: 13.8 V DC (20 A max.)



CT-17 CI-V LEVEL CONVERTER
For remote transceiver control from a PC equipped with an RS-



• AH-710 FOLDED DIPOLE ANTENNA

Covers from 1.9 to 30 MHz band. Has a PL-259 connector. Easy to assemble (non-kink construction).



CR-338 HIGH STABILITY CRYSTAL UNIT

Contains a temp. compensating heater for improved frequency stability. Frequency stability: ±0.5 ppm

SP-7 EXTERNAL SPEAKER SP-20 EXTERNAL SPEAKER SP-21 EXTERNAL SPEAKER OPC-599 ACC 13 PIN CABLE

ADAPTER
IC-MB5 MOBILE BRACKET MB-23 CARRYING HANDLE

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Icom Inc. (Japan), is an ISO9001 certification acquired company.



IC-T81A (U.S.A. version) IC-T81E (Europe version)



Amazingly compact 4-bander

The IC-T81A/E multiband transceivers are compact, built tough, offer a wide variety of functions and yet are as simple to operate as single band handhelds.

Ultra-compact and water-resistant

The IC-T81Å/E includes the $50^{\star1}$, 144, 430(440) MHz and 1.2 GHz bands and yet is surprisingly compact, measuring only $58(W)\times 106(H)\times 28.5(D)$ mm \star2 . The newly designed power amplifier circuit provides a powerful 5 W \star3 of output power. And water-resistant (JIS grade 4) means safe operation out of doors.

*1Depending on country; *2 $2\%2(W) \times 4\%16(H) \times 1\%(D)$ in.; *3at 13.5 V DC typ. (1 W for 1.2 GHz)

Multi-function 'joy-stick' switch

A 'joy-stick' style multi-function switch is adopted and can be tog-

gled left/right, up/down or pushed straight on (5-way action). This allows quick and easy changing of bands, volume, set mode contents, etc. Operation is so simple you might be fooled into thinking you're using a single band transceiver rather than a full function, multiband one!



Wide FM and AM receive modes

Wide FM and AM receive allows you to monitor FM broadcasting and VHF air band* communications.

*Depending on version.

Tone squelch standard

Tone squelch and pocket beep functions are standard, providing quiet stand-by. Pocket beep also provides a 'pager-like' function. In addition, a tone scan function is standard, allowing you to determine subaudible tones required to access repeaters.

Other features

- RIT and VXO functions for 1200 MHz band
- Ni-MH battery standard (depending on version)
- Durable, commercial-grade construction
- 124 memory channels with name capability (except call channels)
- Excellent frequency stability of ± 3 ppm
- Narrow FM capability (Italy and Europe versions)
- · Auto repeater function (USA version only)
- · Simultaneous charging and operating capability
- PC programmable (optional cloning software and cable are required)
- 9 DTMF memories
- Built-in guide function and more...

		GI	ENERAL		
Freque	ency co	verage :			(Unit: MHz
Version	50 MHz	144 MHz	430(440) MHz	1.2 GHz	WFM*4
USA	50- 53.995	Rx: 118-173.995*1 Tx: 144-148	Rx: 400-469.995*2 Tx: 430-450*2	1240-1300	76-107.995
Europe, UK	50-52	144-146	430-440	1240-1300	88-107.995
Italy	50-52 (Rx only)	Rx: 118173.995*1 Tx: 144-148	Rx: 400-469.995*3 Tx: 430-440	1240-1300	88-107.995
Asia	50- 53.995	Rx: 118-173.995*1 Tx: 144-148	Rx: 400-469.995*1 Tx: 430-440	1240-1300	76-107.995
General	50-52	Rx: 118-173.995*1 Tx: 144-148	Rx: 400-469.995*3 Tx: 430-440	1240-1300	88-107.995

*3Guaranteed 430-440 MHz only: *4Not guaranteed

: FM, AM (Rx. only), WFM (Rx. only) Mode

No. of memory ch. : 124 (100 reg., 20 scan edges, 4 call)
Frequency stability : ±3 ppm (-10°C to +60°C)
Useable temp. range: -10°C to +60°C; +14°F to +140°F Power supply : 4.5 to 16 V DC or specified battery pack

Current drain (at 13.5 V DC)

1.4 A (0.8 A at 1200 MHz) Tx max. power

Rx rated audio 220 mA power saved 40 mA standby

70 mA (90 mA at 1200 MHz) • Tuning steps (kHz) 5*, 10, 12.5, 15*, 20, 25, 30, 50, 100

Not available for 1200 MHz band.

• Antenna connector : SMA (50 Ω)

• Dimensions 58(W)×106(H)×28.5(D) mm (projections not included) 29/32(W)×43/16×11/8(D) in • Weight (approx. w/ant.): 290 g; 10.2 oz (w/BP-197)

270 g; 9.5 oz (w/BP-199) 280 g; 9.9 oz (w/BP-200)

TRANSMITTER

High 5.0 W (1.0 W at 1200 MHz) Output power 0.5 W (0.1 W at 1200 MHz) : Variable reactance freq. modulation Modulation system

• Spurious emissions : Less than -60 dB

50 dB for Europe version at 1200 MHz; -40 dB for others at 1200 MHz)

Max. freq. deviation : ±5 kHz

Ext. MIC connector : 3-conductor 2.5 (d) mm (½")/2 kΩ

RECEIVER

• Receive system Double conversion superheterodyne

· Intermediate freq. 1st 69.45 MHz (13.35 MHz: WFM) 450 kHz 2nd

All stated specifications are typical and subject to change without notice or obligations.

AD-87

BC-119 DESKTOP CHARGER + AD-87 DESKTOP CHARGER

or BP-200. Both AC (using an AC adapter) and

DC can be used to power the charger. The AD-

88 must be purchased separately.

ADAPTER

	50 MHz	144 MHz	430(440) MHz	1.2 GHz	91.5 MHz
FM	0.18 μV	0.18 μV	0.18 µV	0.25 μV	
AM	0.56 μV	-	_	_	
WFM		_		_	2.0 µV

: 0.18 μV (FM: 0.25 μV at 1200 MHz) 5.6 μV (WFM) SQL sensitivity

(threshold) 0.56 µV (AM)

 Selectivity : More than 15 kHz/-9 dB (except WFM) Less than 30 kHz/-60 dB

 Spurious and image rejection ratio: 50, 144 MHz Less than -60 dB 430(440) MHz Less than -50 dB 1200 MHz Less than -50 dB (except half IF, 2nd image, 50 MHz band IF and WFM)

• Audio output power : 250 mW typ. at 10% distortion/8 Ω load

(at 13.5 V DC)

Supplied accessories

Battery pack/case

Antenna

Wall charger* Belt clip *depending on version

OPTIONS



Approx output powers and operating times (Tx high: Rx: Stand-by=5: 5: 90)

BATTERY PACK	OUTPUT POWER	BATTERY LIFE
BP-198	1 W (0.3 W*) typical	6 hrs.
BP-199	1.5 W (0.5 W*) typical	5 hrs.
BP-200	4 W (0.5 W*) typical	4 hrs.

BC-119 Rapidly charges battery packs BP-198, BP-199

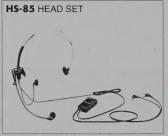


HM-46 : Compact and lightweight. Equipped with an earphone jack HM-54 : Durable, full-sized speaker-microphone.

HM-75A: Allows you to remotely select memory channels operating frequency, etc. Simple remote and normal remote are selectable.



Helps protect the transceiver from scratches, etc. Fits any battery pack.



Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" (TOT).



Allows you to operate the transceiver through a 12 V Allows you to operate the transceiver through a 12 v cigarette lighter socket or a 4.5 to 16 V external DC power supply with the CP-12L or OPC-254L, respec-tively. The connected battery pack is charged simul-taneously (13.5 to 16 V necessary).



Provides clear audio in noisy environments.

BC-110A/C/D/V

versions.

WALL CHARGER Regularly charges battery packs. The same as supplied with some

CS-T81 CLONING SOFTWARE + OPC-478 CLONING CABLE

Provides quick and easy programming of memory channels, memory names and set mode contents, for local repeater frequencies, etc.

OPC-474 CLONING CABLE Used for handheld-to-handheld data cloning.

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.



IC-2100H



Superior performance and features

Improved receiver IMD helps provide protection from excessively strong signals such as pager signals. And the squelch attenuator (approx. 10 dB) allows you to reduce interference from strong nearby signals—a winning combination for receiver performance.

55 W* of output power

Be heard! 55 W of transmit power pushes your DX'ing capabilities out further. Power down to 10 W or 5 W as needed—the IC-2100H gives you 3 power selections to choose from.

*10 W and 5 W only are available for the IC-2100-T.

Easy to use

The oversized tuning dial is easy to grab while on the move and the large backlit display clearly provides key information at a glance. Memory channels can be assigned names for easy recognition and eys access functions directly—no secondary function key.

Commercial grade, rugged construction

Land mobile durability! A one piece, die-cast aluminum chassis helps keep operating temperatures down and provides reliable operation even at high duty cycles.

Tone squelch standard

The built-in tone squelch system provides 50 independently programmable tone frequencies for both repeater and tone squelch use. Pocket beep and tone scan functions are additionally provided.

And more...

- FM narrow mode switchable (Europe and Italy versions only)
- PC ready—all memory channel and set mode contents can be programmed via a PC or another IC-2100H quickly and easily
- Backlit microphones optionally available*
 - *Standard with some versions.
- Optional HM-90 provides wireless remote capability
- 14 channels for 16-digit DTMF codes (w/HM-98S or HM-90)
- Total of 113 memory channels
- · Selectable squelch delay





GENERAL

Frequency range (MHz) and supplied microphon

Version	Receive	Transmit	Supplied mic.
USA	136-174*	144-148	HM-98S
Europe	144-146	144-146	HM-97
Italy	136-174*	144-148	HM-97
Asia	136-174*	144-148	HM-118
Latin America	136-174*	144-148	HM-118T
IC-2100-T (Thailand)	144-146	144-146	HM-118T
Taiwan	144-146	144-146	HM-98S

*Guaranteed 144-148 MHz only.

Mode

· No. of memory channels

: 113 (incl. 3 pairs of scan edges, 3 log, 3 repeater and 1 call channel)

· Usable temperature range Frequency stability

: -10°C to +60°C; +14°F to +140°F : ±10 ppm (-10°C to +60°C)

 Power supply requirements Current drain (at 13.8 V DC)

: 13.8 V DC ±15% (negative ground) : Receive standby 0.8 A

max. audio 1.0 A Transmit at 55 W 12.0 A

Antenna connector

· Dimensions (proj. not included)

: SO-239 (50 Ω)

: $140(W) \times 40(H) \times 180(D)$ mm $5\frac{1}{2}(W) \times 1\frac{9}{16}(H) \times 7\frac{3}{32}(D)$ in

• Weight (approx.)

: 1.2 kg; 2 lb 10 oz

TRANSMITTER

55 W*1, 10 W, 5 W selectable*2 Output power

*125, 10 and 5 W for the Taiwan version. *210 and 5 W only for the IC-2100-T.

Double-conversion superheterodyne

More than 12/6* kHz at -6 dB

Less than 28/18* kHz at -60 dB

· Maximum frequency deviation ±5.0/±2.5* kHz *Europe and Italy versions only

Less than -60 dB Spurious emissions

: 8-pin modular (600 Ω) Microphone connector

RECEIVER

: 1st 15.65 MHz

Less than 0.18 µV

Less than 0.13 µV

Receive system

• Intermediate frequencies

Sensitivity (at 12 dB SINAD)

 Squelch sensitivity (threshold) Selectivity (wide/narrow)

*Europe and Italy versions only · Spurious and image rejection

Intermodulation rejection ratio

More than 60 dB More than 70 dB

• Audio output power (at 13.8 V DC) : More than 2.4 W at 10% distortion with an 8 Ω load

Supplied accessories

Hand microphone
 Mobile mounting bracket kit

2nd 450 kHz

DC power cableSpare fuse

All stated specifications are subject to change without notice or obligation.

OPTIONS

■ HAND MICROPHONES

• HM-118

Regular hand microphone.

HM-118T/TA

DTMF microphones with keypad backlighting

• HM-79, HM-97

Have a tone call function.

• HM-985

Remote control microphone with keypad backlighting.

■ WIRELESS REMOTE ACCESSORIES

- HM-90 WIRELESS MICROPHONE Infrared, full remote control microphone.
- EX-1759 INFRARED RECEIVER Used to receive control signals from the HM-90.
- EX-1513 INFRARED SUB RECEIVER Extends the remote controllable area.
- BC-96 MICROPHONE HOLDER Holds the HM-90 in a convenient place and supplies power to the charging circuit of the HM-90.
- CP-13L CIGARETTE LIGHTER CABLE WITH NOISE FILTER

OPC-288/L DC POWER CABLE

Supply power to the BC-96 for charging the Ni-Cd batteries inside the HM-90.

OTHER ACCESSORIES

• CS-2100 CLONING SOFTWARE

+ OPC-478 CLONING CABLE

For quick and easy programming of memories, etc.

- HS-62 FLEXIBLE MOBILE MICROPHONE
- + HS-15B SWITCH BOX
- + OPC-589 ADAPTER CABLE

For all-around mobile operation.

- SP-10/SP-12 EXTERNAL SPEAKERS
- OPC-440/OPC-647 MIC EXTENSION CABLES OPC-440: 5.0 m (16.4 ft); OPC-647: 2.5 m (8.2 ft)
- OPC-441 SPEAKER EXTENSION CABLE
- OPC-346/OPC-347 DC POWER CABLES
- MB-17A MOBIL F MOUNTING BRACKET
- OPC-474 CLONING CABLE (between transceivers)





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IC-207H



Detachable and compact front panel

simple operation, the band can be

selected with a large, independent

"BAND" switch, while the ample-sized

display shows only the selected oper-

ating frequency for easy recognition.

The front panel can be easily separated from the main unit using the optional OPC-600 or OPC-601 SEPARATION CABLES. Its compact dimensions of $110(W)\times40(H)\times28.3(D)$ mm,* allow installation almost anywhere in a wide variety of vehicle types. *411/s2(W)×19/16(H)×11/6(D) in.

via BAND switch

"Soft keys"

Switch labels are displayed on the LCD for easy visibility even during hight operation.

Tone squelch standard

A separate CTCSS tone encoder and CTCSS tone encoder/decoder are standard and provide 50 independently programmable tone frequencies for repeater and tone squelch use, respectively. Additionally, tone scan and pocket beep functions are available.

9600 bps packet operation

A mini DIN 6 connector is located on the rear panel for direct connection to a packet modem. Packet speeds up to 9600 bps are supported.

And more...

- The optional HM-90 WIRELESS MICROPHONE provides convenient wireless operation of transceiver functions
- · Built-in duplexer
- •4 selectable RF output powers—up to 50 W (VHF); up to 35 W (UHF)
- •Total of 182 memory channels (150 for regular, 10 each for VHF/UHF scratch pads, 10 for scan edges and 2 for call channels) are available
- Most functions can be controlled from the supplied hand microphone (except some versions)
- RF attenuator linked to the squelch control
- •Ultra high speed scans
- Auto repeater function (USA version only)

		GENERAL	
• Frequency	coverage	:	(Unit: MHz)
	Version	VHF	UHF
	U.S.A.	Tx: 144-148 Rx: 118-174*1	440-450
	Europe	144–146	430-440
1	Italy	144–146	430-434, 435-438
	Asia	Tx: 144-148 Rx: 136-174*1	430-440
	Taiwan	144–146	430-440

Mode

· FM AM*

Number of memory channels

Guaranteed 144-148

Antenna connector

· Power supply requirement • Usable temperature range

Frequency stability

· Tuning step increments

• Current drain (at 13.8 V DC)

Dimensions

(projections not included)

· Weight

*U.S.A. version, RX only; 118-136 MHz; not guaranteed

: 182 (150 reg., 2 call, 10 scan edges and 20 scratch pads) SO-239 (50 Ω)

: 13.8 V DC ±15%

: -10°C to +60°C; +14°F to +140°F

±10 ppm

5, 10, 12.5, 15, 20, 25, 30, 50 kHz and 1 MHz 0.8 A

1.0 A

: Receive squelched max. audio output

Transmit at high power VHF 12 A **UHF 11 A**

: 140(W) × 40(H) × 185,4(D) mm 51/2(W) × 19/16(H) × 75/16(D) in

: Approx. 1.17 kg; 2.6 lb.

TRANSMITTER

Output power

VHF 50 W, 20 W, 10 W, 5 W selectable UHF 35 W, 20 W, 10 W, 5 W selectable VHF/UHF 25 W, 15 W, 10 W, 5 W for the Taiwan version

• Max. frequency deviation ±5.0 kHz

Spurious emissions

· Microphone connector

Less than -60 dB

: 8-pin modular jack (600 Ω)

RECEIVER

· Receive system

· Intermediate frequencies

Sensitivity

Squelch sensitivity

Selectivity

· Spurious rejection ratio

· Audio output (at 13.8 V DC)

· Ext. speaker connector

: Double conversion superheterodyne : 1st 46.05 MHz 2nd 450 kHz

: Less than 0.18 µV for 12 dB SINAD

: 0.13 µV (at threshold) : More than 12 kHz/-6 dB

Less than 30 kHz/-60 dB

More than 60 dB

: More than 2.0 W at 10% distortion with an 8 Ω load

: 2-conductor 3.5 (d) mm (1/8")/8 Ω

Supplied accessories:

 DC power cable · Spare fuse

All stated specifications are subject to change without notice or obligation.

OPTIONS

■ SEPARATION ACCESSORIES

•OPC-600/601 SEPARATION CABLE For operation with the front panel detached. OPC-600: 3.5 m (11.5 ft); OPC-601: 7.0 m (23.0 ft)

• MB-58 REMOTE CONTROLLER BRACKET Mounts the remote controller in a convenient location for operation with the front panel detached.

• MB-65 REMOTE CONTROLLER BRACKET Mounts the remote controller with the MB-58. Adjustable angle and direction for optimum positioning.

OPC-440: 5.0 m (16.4 ft); OPC-647: 2.5 m (8.2 ft) •OPC-441 SPEAKER EXTENSION CABLE

•OPC-346/OPC-347 DC POWER CABLE Has a 20 A capacity and a length of 3/7 m (9.8/23 ft). •OPC-440/647 MIC EXTENSION CABLE

IC-CSW 207/2010 \$30.95 120,90

Used to with the EX-1759 to extend the controllable

Infrared, full remote control microphone. Wired remote

■ WIRELESS REMOTE ACCESSORIES

Used to receive control signals from the HM-90.

• HM-90 WIRELESS MICROPHONE

• EX-1759 INFRARED RECEIVER

• EX-1513 INFRARED SUB RECEIVER

control is also possible.

OTHER ACCESSORIES

CS-207 CLONING SOFTWARE

+ OPC-646 CLONING CABLE

For quick and easy programming of memories, etc.

HAND MICROPHONES

HM-95 (w/DTMF), HM-97 (w/tone call) and HM-98 (remote control)

• HS-62 FLEXIBLE MOBILE MICROPHONE

+ HS-15SB SWITCHBOX

+ OPC-589 ADAPTER CABLE

For all-around mobile operation.

• MB-17A MOBILE MOUNTING BRACKET

SP-10 EXTERNAL SPEAKER







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Icom Inc. (Japan), is an ISO9001 certification acquired company.



IC-2100H



Superior performance and features

Improved receiver IMD helps provide protection from excessively strong signals such as pager signals. And the squelch attenuator (approx. 10 dB) allows you to reduce interference from strong nearby signals—a winning combination for receiver performance.

55 W* of output power

Be heard! 55 W of transmit power pushes your DX'ing capabilities out further. Power down to 10 W or 5 W as needed—the IC-2100H gives you 3 power selections to choose from.

*10 W and 5 W only are available for the IC-2100-T.

Easy to use

The oversized tuning dial is easy to grab while on the move and the large backlit display clearly provides key information at a glance. Memory channels can be assigned names for easy recognition and eys access functions directly—no secondary function key.

Commercial grade, rugged construction

Land mobile durability! A one piece, die-cast aluminum chassis helps keep operating temperatures down and provides reliable operation even at high duty cycles.

Tone squelch standard

The built-in tone squelch system provides 50 independently programmable tone frequencies for both repeater and tone squelch use. Pocket beep and tone scan functions are additionally provided.

And more...

- FM narrow mode switchable (Europe and Italy versions only)
- PC ready—all memory channel and set mode contents can be programmed via a PC or another IC-2100H quickly and easily
- Backlit microphones optionally available*
 - *Standard with some versions.
- Optional HM-90 provides wireless remote capability
- 14 channels for 16-digit DTMF codes (w/HM-98S or HM-90)
- Total of 113 memory channels
- Selectable squelch delay





GENERAL

• Frequency range (MHz) and supplied microphones:

TIT IZ) arra oapproa irrio			
Version	Receive	Transmit	Supplied mic.
USA	136-174*	144-148	HM-98S
Europe	144-146	144-146	HM-97
Italy	136-174*	144–148	HM-97
Asia	136-174*	144-148	HM-118
Latin America	136-174*	144-148	HM-118T
IC-2100-T (Thailand)	144-146	144-146	HM-118T
Taiwan	144-146	144-146	HM-98S

*Guaranteed 144-148 MHz only. : FM

 Mode · No. of memory channels

: 113 (incl. 3 pairs of scan edges, 3 log, 3 repeater and 1

call channel)

Usable temperature range

:-10°C to +60°C; +14°F to +140°F

Frequency stability

: ±10 ppm (-10°C to +60°C)

 Power supply requirements • Current drain (at 13.8 V DC)

13.8 V DC ±15% (negative ground) : Receive standby max. audio 1.0 A

Transmit at 55 W 12.0 A

Antenna connector

• Dimensions (proj. not included)

: SO-239 (50 Ω) : 140(W) × 40(H) × 180(D) mm $5\frac{1}{2}(W) \times 1\frac{9}{16}(H) \times 7\frac{3}{32}(D)$ in

· Weight (approx.)

: 1.2 kg; 2 lb 10 oz

TRANSMITTER

: 55 W*1, 10 W, 5 W selectable*2 Output power

*125, 10 and 5 W for the Taiwan version. *210 and 5 W only for the IC-2100-T.

Europe and Italy versions only ±5.0/±2.5 kHz Maximum frequency deviation

Less than -60 dB Spurious emissions Microphone connector : 8-pin modular (600 Ω)

RECEIVER

· Receive system : Double-conversion superheterodyne

1st 15 65 MHz · Intermediate frequencies 2nd 450 kHz Less than 0.18 µV Sensitivity (at 12 dB S!NAD) Less than 0.13 µV

 Squelch sensitivity (threshold) Selectivity (wide/narrow) More than 12/6* kHz at -6 dB *Europe and Italy versions only Less than 28/18* kHz at -60 dB

 Spurious and image rejection More than 60 dB • Intermodulation rejection ratio More than 70 dB

• Audio output power (at 13.8 V DC) : More than 2.4 W at 10% distortion with an 8 Ω load

Supplied accessories

● Hand microphone ● Mobile mounting bracket kit

DC power cableSpare fuse

All stated specifications are subject to change without notice or obligation.

OPTIONS

HAND MICROPHONES

• HM-118

Regular hand microphone.

• HM-118T/TA

DTMF microphones with keypad backlighting.

• HM-79, HM-97

Have a tone call function.

HM-985

Remote control microphone with keypad backlighting.

WIRELESS REMOTE ACCESSORIES

- HM-90 WIRELESS MICROPHONE Infrared, full remote control microphone.
- EX-1759 INFRARED RECEIVER Used to receive control signals from the HM-90.
- EX-1513 INFRARED SUB RECEIVER Extends the remote controllable area
- BC-96 MICROPHONE HOLDER

Holds the HM-90 in a convenient place and supplies power to the charging circuit of the HM-90.

• CP-13L CIGARETTE LIGHTER CABLE WITH NOISE FILTER

OPC-288/L DC POWER CABLE

Supply power to the BC-96 for charging the Ni-Cd batteries inside the HM-90.

MOTHER ACCESSORIES

- . CS-2100 CLONING SOFTWARE
 - + OPC-478 CLONING CABLE

For quick and easy programming of memories, etc.

- HS-62 FLEXIBLE MOBILE MICROPHONE
 - + HS-15B SWITCH BOX
- + OPC-589 ADAPTER CABLE
- For all-around mobile operation
- SP-10/SP-12 EXTERNAL SPEAKERS
- OPC-440/OPC-647 MIC EXTENSION CABLES OPC-440: 5.0 m (16.4 ft); OPC-647: 2.5 m (8.2 ft)
- OPC-441 SPEAKER EXTENSION CABLE
- OPC-346/OPC-347 DC POWER CABLES
- MB-17A MOBILE MOUNTING BRACKET
- OPC-474 CLONING CABLE (between transceivers)





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Your local distributor/dealer:



Printed in Japan



IC-T2H



More than enough power...

6 W* of transmit power and 500 mW* of audio output

The IC-T2H provides a powerful 6 W* of RF output power with the supplied Ni-Cd battery pack. More than enough for long distance communications. And on the receiving side a generous 500 mW* of audio is emitted for clear reception even in noisy operating environments.

*Typical at 9.6 V DC.

Commercial grade durability

Built tough. The IC-T2H is designed and constructed to deliver reliable performance under demanding conditions.

Tone squelch standard

The built-in tone squelch system provides quiet standby (the squelch only opens for calls directed to you) as well as pocket beep and tone scan functions. Pocket beep provides a method of keeping track of calls directed to you (like a 'common' pager) and tone scan allows you to detect subaudible tone frequencies that are needed to open a repeater, etc.

Easy operation with customizable keys

Default key functions have been assigned with ease of operation in mind. However, eight keys on the keypad are customizable allowing you to assign functions to them other than the defaults. This can be performed via cloning or directly from the keypad.

DTMF encoder with memory channels

A DTMF encoder with 5 DTMF memory channels is built-in—DTMF codes of up to 32 characters can be stored. And an automatic re-dial function provides simple operation for autopatching, etc.

Cloning capabilities

Cloning between handhelds or between handheld and PC provide quick and easy transfer of settings. An OPC-474 CLONING CABLE is required for transceiver-to-transceiver cloning and an OPC-478 CLONING CABLE plus the CS-T2 CLONING SOFTWARE is required for PC-to-transceiver cloning.

Other outstanding functions

- · Guide function for quick reference to key functions
- · LCD backlight with timer
- 40 memory channels available
- 2-step power saver function increase battery life
- Automatic repeater function (USA version only)
- Microphone simple remote control function (optional HM-75A required)
- Monitor function
- Lock function
- 10 weather channels (USA version only)
- ANI (Automatic Number Identification) function*
 - *Available for some versions only.

C-T2H

60 dB (typical) (More than -45 dB: half image point, except 2nd image) • Audio output power : 500 mW typical with an 8 Ω

load

 $/8 \Omega$

: More than 15 kHz/-9 dB

Less than 30 kHz/-60 dB

: 3-conductor 3.5 (d) mm (1/8")

SPECIFICATIONS

GENERAL

• Frequency coverage

Version	Transmit	Receive
USA	144-148 MHz	136-174 MHz*
Europe	144-146 MHz	144146 MHz
Italy	144-148 MHz	136-174 MHz*
Asia, S. America	144–148 MHz	136-174 MHz*

*Guaranteed range: 144-148 MHz

 Mode : FM

• No. of memory ch. : 43 (incl. 2 scan edges and 1 call)

 Frequency stability : ±10 ppm (0°C to +50°C)

Operating temperature range:
 -10°C to +60°C; +14°F to +140°F

· Power supply requirement

9.6 V DC (supplied Ni-Cd cells) (negative ground)

Current drain (at 9.6 V DC):

at 6.0 W 1.6 A (typical) Tx at 1.0 W 0.7 A (typical) max. audio 210 mA (typical) standby 80 mA (typical) power saved 25 mA (typical/1:4)

 Antenna connector : BNC (50 Ω)

58(W)×140.5(H)×32.3(D) mm; Dimensions (proj. not incl.) 29/32(W)×517/32(H)×19/32(D) in

: 420g; 14.8 oz (w/ant. and battery) • Weight (approx.)

TRANSMITTER

6.0 W (typical) : High Output power 1.0 W (typical) (at 9.6 V.DC) Low Modulation : Variable reactance frequency

modulation :Less than -60 dB Spurious emissions

• Max. freq. deviation ; ±5.0 kHz • Ext. mic. connector : 3-conductor 2.5 (d) mm (1/10")

/2 kQ

RECEIVER

: 1st

2nd

Receiver system

Intermediate freq

· Squelch sensitivity

Sensitivity

Double conversion super-

450 kHz

: 0.14 µV (typ.; for 12 dB SINAD)

heterodyne 1st 30.85 MHz

: 0.16 µV (typ.; threshold)

· Spurious and image rejection:

Selectivity

(at 9.6 V.DC)

Ext. SP connector

Supplied accessories ■ Battery case with Ni-Cd cells* ● Wall charger*

Antenna Belt clip *depending on version

All stated specifications are subject to change without notice or obligations.

OPTIONS

BATTERY PACKS AND CASE BP-196 BP-194 9.6 V/1050 mAh R6 (AA) 9.6 V/700 mAh batteries×8

*Ni-Cd cells in BP-194 BATTERY CASE must be purchased separately. Approx output powers and operating times (Tx (high): Rx: Stand-by=1: 1: 8)

BP-194 (w/Ni-Cd cells)	BP-195	BP-196
6.0 W/3.7 h	6.0 W/3.7 h	6.0 W/5.5 h



Rapidly charges battery packs BP-195 or BP-196. Installed Ni-Cd cells cannot be charged via supplied BP-194 BATTERY CASE. Both AC (using an AC adapter) and DC can be used to power the charger. The AD-81 must be purchased separately



HM-46 : Compact and lightweight. Equipped with an earphone jack

HM-54 : Durable, full-sized speaker-microphone.

HM-75A: Allows you to remotely select memory channels operating frequency, etc. Simple remote and normal remote are selectable.



Helps protect the transceiver from scratches, etc. Fits any battery pack.



Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" (TOT).



Allows you to charge the connected battery pack (13.5 to 16 V DC required). For charging ONLY-the transceiver cannot be simultaneously operated.



Provides clear audio in noisy

BC-110A/D/V WALL CHARGER Standard wall charger. The same as supplied with some versions. CS-T2 CLONING SOFTWARE + OPC-478 CLONING CABLE

Provides quick and easy programming of memory channels, memory names and set mode contents, for local repeater frequencies, etc., via an IBM compatible PC. **OPC-474** CLONING CABLE

Used for handheld-to-handheld data MB-68 BELT CLIP

Attaches the transceiver to your belt. Same as supplied. BC-133 BATTERY CHARGER

Regularly charges a battery back with/without transceiver.

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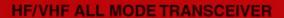
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Icom Inc. (Japan), is an ISO9001 certification acquired company.

Certificate Number Q14190



ICOM

IC-746

11F+50MHz+1-4-MHz 100W 100W 100W



ICOM INNOVATION AND TECH

LOOKING FOR ONE RIG TO SATISFY ALL YOUR BASE STATION NEEDS?
TURES, SUPERIOR PERFORMANCE OVER A WIDE FREQUENCY RANGE A



HF + 6 m + 2 m band coverage

The IC-746 offers all mode operation (SSB, CW, RTTY, AM and FM) on the amateur HF (1.8–28 MHz), 50 MHz and 144 MHz bands. In addition, a wide frequency coverage receiver provides continuous coverage from 30 kHz to 60 MHz and 108–174 MHz.*

*Specifications guaranteed 1.8–29.990 MHz, 50–54 MHz and 144–148 MHz only.

100 W output for all bands

100 W of output power is available on all bands—HF, 50 MHz and 144 MHz, making the IC-746 a practical choice for allround base station use. The aluminum, die-cast chassis and large cooling fan help to stabilize the PA circuit, providing 100%, full duty cycle operation.

DSP functions standard

DSP digitally transposes receive audio components in all modes of operation to produce desired AF frequency characteristics at the IF stage (15.625 kHz) of the transceiver. This built-in DSP provides the following functions.

- Noise reduction—reduces various types of noise and enhances receive signal components only.
- ♦ Automatic notch filter—automatically reduces single beat interference and protects the receive voice signals. The notch frequency adjusts automatically to the interfering beat frequency.
- ♦ Selectable APF—a total of 3 passband widths are selectable from 80 Hz, 160 Hz and 320 Hz, for super-narrow filter APF functions in CW mode. The APF center frequency is adjustable.

Large, multi-function LCD

Designed for ease-of-use and optimum readability in any lighting condition. Operating frequency, memory channel number, function settings and digital meter readouts are indicated. In addition, the following items can be displayed in the multi-function, dot-matrix portion of the LCD:

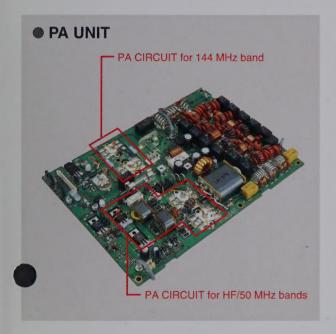
HF/VHF ALL MODE TRANSCEIVER

IC-746

- ▶ Band scope—provides a convenient visual indication of band conditions around a displayed frequency
- Memory names—up to 9 characters can be conveniently assigned to memories
- Key assignments—indicates functions assigned to the multi-function switches
- ▶ Twin PBT settings—display passband widths and passband location against the Rx frequency
- ▶ Split frequency—Rx or Tx frequency* is displayed during split operation *Depending on condition (transmit or receir
- Memory keyer contents—displays the contents of the CW memory keyer

NOLOGY LEADERSHIP...AGAIN!

OOK NO FURTHER! THE IC-746 OFFERS IF DSP, NEW AND EXCITING FEA-ALL MODE OPERATION AT 100 W (40 W IN AM MODE).



Display example 1— Band scope



 Display example 3— Dual frequency display



Display example 2— Memory names



 Display example 4— Memory keyer contents



Twin PBT

This convenient function narrows the IF passband in two stages to eliminate interfering signals. Particularly useful during crowded band conditions such as pileups, contests, etc.

Versatile filter combinations

Up to 3* optional crystal filters can be installed, providing a wide variety of filter combinations. Choose a filter combination from the front panel that best suits your operating needs, for example 500 Hz and 250 Hz CW filters.

*2 filters for 9 MHz IF and 1 for 455 kHz IF stages.

Digital, multi-function S/RF meter

This meter provides a variety of useful information. Signal strength is indicated ille receiving (S-meter) and RF output, SWR and ALC levels are simultaneously indicated while transmitting. A peak level hold function is available for the S-meter.

Complete CW functions

CW enthusiasts won't be disappointed. With a built-in 4 channel memory keyer with 50 characters, multi-function electronic keyer, CW pitch control and full break-in (QSK), the IC-746 has it all.

Tone squelch standard

Tone squelch functions (CTCSS encoder/decoder) are standard with 50 different tone frequencies available.

Automatic antenna tuner

An automatic antenna tuner is built-in and covers the HF bands to 50 MHz.* After operating on a band for the first time memories can be preset providing very high speed tuning.

*Guaranteed for amateur bands only.

FM narrow capability

The IC-746 lets you take full advantage of this operating style on either the 10 m or 2 m (where narrow FM is required) bands.

Quick split function

With this function, the offset frequency can be set in advance. Simply push [SPLIT] for 1 sec. to select all necessary settings for split frequency operation.

Other outstanding features

- Triple band stacking register
- Memo-pad function has up to 10 channels available to temporarily store operating frequencies and modes
- Optional UT-102 VOICE SYNTHESIZER UNIT announces the displayed frequency, operating mode and S-meter level
- IF transmit audio monitor (SSB mode only; AF transmit audio monitor for the other modes)



GENERAL

quericy cove	raye (IVITIZ) .	
Receive	0.030- 60.000*1	108.000-174.000*1
Transmit	1.800- 1.999*2	3.500- 3.999*2
	7.000- 7.300*2	10.100- 10.150
	14.000- 14.350	18.068- 18.168
	21.000 21.450	24.890- 24.990
	28.000- 29.700	50.000- 54.000*2
	144 000 149 000*2	

*1except for some frequency ranges

*2depending on version Mode

USB, LSB, CW, RTTY, AM, FM No. of memory channels : 102 (99 regular, 2 scan edges and 1 call)

· Frequency stability

Less than ±7 ppm from 1 min. to 60 min. after power ON. After that, rate of stability change is less than ±1 ppm at 25°C (+77°F). Temperature fluctuations (0°C to +50°C;

Power supply requirement

+32°F to +122°F) less than ±5 ppm.

ver supply requirement : 13.8 V DC (±15%; negative ground)
rent drain (at 13.8 V DC) : Transmit max. power 20.0 A Current drain (at 13.8 V DC) Receive max. audio 2.0 A

· Antenna connector

standby 1.8 A : SO-239×3 (2 for HF/50 MHz and 1 for 144 MHz bands; 50 Ω) : 287(W)×122.5(H)×316(D) mm 11⁵/₁₆(W)×4¹³/₁₆(H)×12⁷/₁₆(D) in Dimensions

8.9 kg; 19 lb 10 oz

(projections not included)

• Weight (approx.)

TRANSMITTER

 Modulation system USB, LSB, AM FM

· Spurious emissions

· Carrier suppression Unwanted sideband supp
△TX variable range

Microphone connector

5-100 W (except AM) 5-40 W (AM only)

Balanced modulation Variable reactance modulation

Less than -50 dB (HF) Less than -60 dB (50/144) More than 40 dB

More than 50 dB ±9.999 kHz 8-pin (600 Ω)

RECEIVER

 Sensitivity (typical) USB, LSB, CW, RTTY (10 dB S/N)

AM (10 dB S/N)

FM (12 dB SINAD)

 $\begin{array}{c} 0.16~\mu V^{\star 1}~(1.8\text{--}29.990~\text{MHz}) \\ 0.13~\mu V^{\star 2}~(50~\text{MHz}) \\ 0.11~\mu V^{\star 3}~(144~\text{MHz}) \end{array}$ $\begin{array}{l} 13~\mu V~(0.5\!\!-\!1.799~\text{MHz}) \\ 2.0~\mu V^{*1}~(1.8\!\!-\!29.990~\text{MHz}) \\ 1.0~\mu V^{*2,3}~(50/144~\text{MHz}) \end{array}$

0.5 μ V*1 (28–29.990 MHz) 0.25 μ V*2 (50 MHz) 0.18 μ V*3 (144 MHz)

*1Preamp-1 ON, *2Preamp-2 ON, *3Preamp ON

 Selectivity USB, LSB, CW, RTTY

AM, FM-N

FM

 Squelch sensitivity USB. LSB. CW. RTTY FM

Spurious and image rejection ratio: (except IF through on 50 MHz)

• RIT variable range

±9.999 kHz More than 2.0 W (at 13.8 V DC · Audio output power with an 8 Ω load)

Supplied accessories: Hand microphone

Spare fuses

DC power cable

More than 2.1 kHz/-6 dB Less than 4.0 kHz/-60 dB

More than 9.0 kHz/-6 dB

Less than 30 kHz/-50 dB

Less than 5.6 µV

Less than 1.0 µV

Less than 20.0 kHz/-40 dB More than 12 kHz/-6 dB

More than 70 dB (HE 50 MHz)

More than 60 dB (144 MHz)

Key plug

All stated specifications are subject to change without notice or obligation.

OPTIONS



IC-PW1 HF + 50 MHz 1 kW LINEAR AMPLIFIER



50 MHz AUTOMATIC ANTENNA TUNER Covers 3.5-54 MHz with a 7 m (23 ft) or longer wire antenna.



AH-2b ANTENNA ELEMENT A 2.5 m long antenna element for mo-bile operation with the AH-4. All bands between 7-54 MHz can be



PS-85 POWER SUPPLY Output: 13.8 V DC (20 A max.)



SP-21 EXTERNAL SPEAKER Designed for base station operation Input impedance: 8 Ω
Max. input power: 5 W



SM-20 DESKTOP MICROPHONE Unidirectional, electret microphone for base station operation. Includes [UP]/[DOWN] switches and a low cut



HM-36 HAND MICROPHONE



SM-8 DESKTOP MICROPHONE Electret, condenser-type desktop mi-crophone including 2 connection ca-bles for simultaneous connection of 2 transceivers. [UP]/[DOWN] switches



9 MHz FILTERS Have good shape factor and provide you with better reception.



CT-17 CI-V LEVEL CONVERTER For remote transceiver control using a personal computer. You can change frequencies, operating mode, memory channels, etc.

FL-100: 500 Hz/-6 dB (CW/RTTY

narrow) FL-101: 250 Hz/-6 dB (CW narrow) FL-103: 2.8 kHz/-6 dB (SSB wide) FL-223: 1.9 kHz/-6 dB (SSB nar-

row.) FL-232: 350 Hz/-6 dB (RTTY, CW



CT-16 SATELLITE INTERFACE UNIT

Easy tuning when connecting another Icom VHF transceiver for instant



455 kHz FILTERS Have good shape factor and provide you with better reception.



CR-282 HIGH-STABILITY

CRYSTAL UNIT
Contains a temperature-compensating oven heater and crystal unit for proved frequency stability. requency stability: ±0.5 ppm

FL-52A: 500 Hz/-6 dB (CW/RTTY

narrow) FL-53A: 250 Hz/-6 dB (CW narrow) FL-96: 2.8 kHz/-6 dB (SSB wide) FL-222: 1.8 kHz/-6 dB (SSB narrow) FL-257: 3.3 kHz/-6 dB (SSB wide)



UT-102 VOICE SYNTHESIZER UNIT

Announces operating frequency, mode and S-meter level.

R5-746 REMOTE CONTROL

SOFTWARE
Provides remote control capability for the IC-746 from your PC.

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